

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P263204

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35SE-SQP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2161.6 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

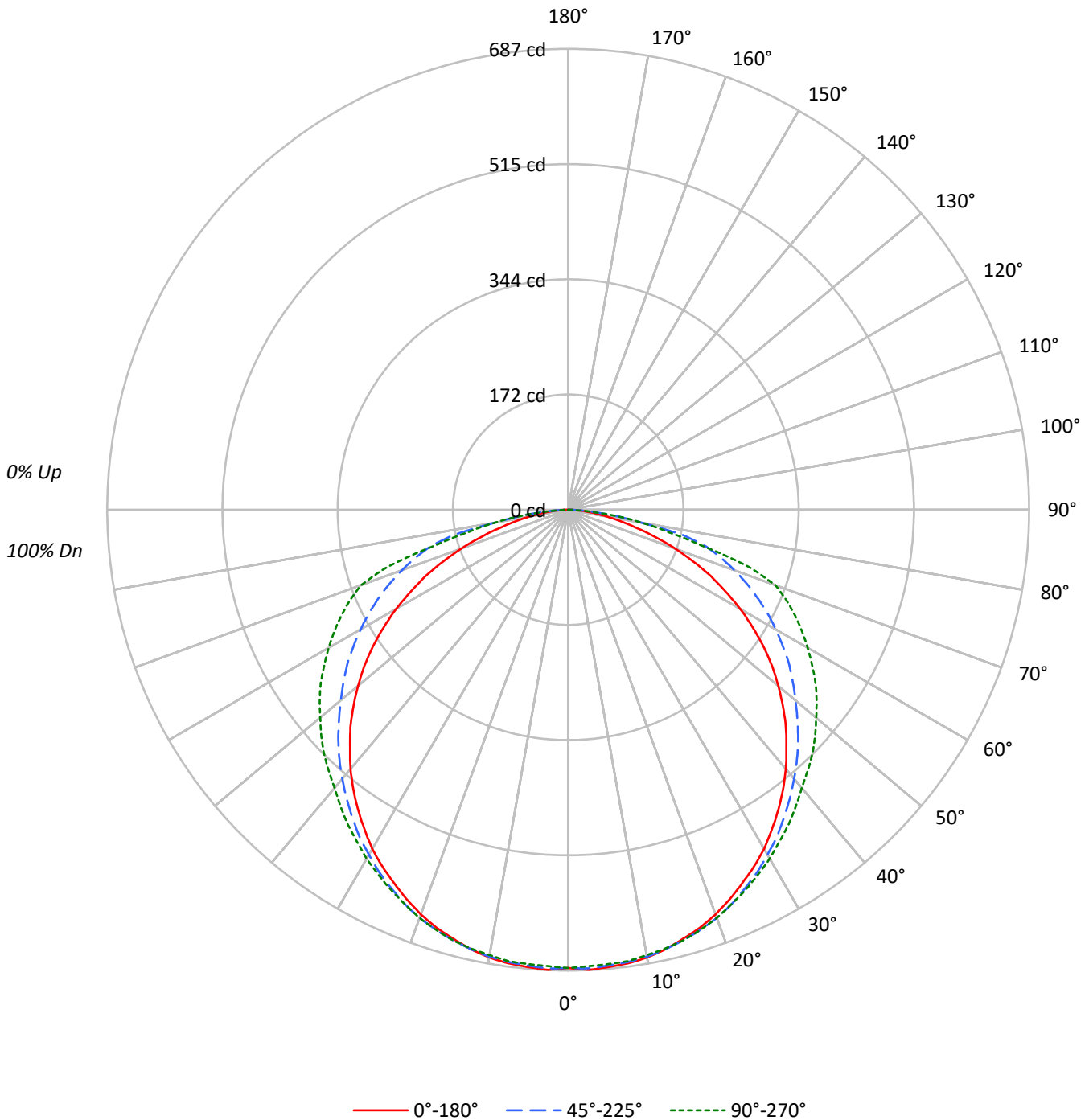
Input Watts (W): 26.71704
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	919	919	919
5°	925	921	918
10°	926	924	921
15°	922	925	925
20°	919	927	927
25°	912	925	928
30°	907	923	933
35°	897	921	941
40°	886	920	951
45°	873	922	979
50°	855	926	1010
55°	833	943	1056
60°	796	961	1109
65°	747	992	1187
70°	668	1037	1292
75°	552	1109	1068
80°	450	856	865
85°	361	568	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	3.0
10°-20°	187.3	8.7
20°-30°	286.2	13.2
30°-40°	350.1	16.2
40°-50°	374.6	17.3
50°-60°	358.7	16.6
60°-70°	303.4	14.0
70°-80°	192.3	8.9
80°-90°	44.2	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	538.4	24.9
0°-40°	888.4	41.1
0°-60°	1621.7	75.0
0°-90°	2161.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2161.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	683	683	683	683	683	
5°	684	681	682	681	680	65
15°	662	661	664	664	664	187
25°	614	614	623	625	625	283
35°	546	549	560	568	573	342
45°	459	467	485	505	515	354
55°	355	366	402	436	450	317
65°	234	257	312	354	373	231
75°	106	150	213	212	205	115
85°	23	36	37	34	35	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	683.3	683.3	683.3	683.3	683.3
2.5°	686.7	683.3	684.5	683.3	681.1
5°	684.5	681.1	682.2	681.1	680.0
7.5°	682.2	678.9	680.0	678.9	678.9
10°	677.8	674.4	676.6	675.5	674.4
12.5°	671.1	668.8	671.1	669.9	669.9
15°	662.1	661.0	664.4	664.4	664.4
17.5°	653.2	652.1	656.5	656.5	656.5
20°	642.0	640.9	647.6	647.6	647.6
22.5°	628.6	627.5	636.4	636.4	636.4
25°	614.1	614.1	623.0	625.3	625.3
27.5°	599.6	599.6	609.6	613.0	613.0
30°	584.0	584.0	594.0	598.5	600.7
32.5°	565.0	567.2	578.4	584.0	586.2
35°	546.0	549.3	560.5	568.3	572.8
37.5°	525.9	529.3	542.6	551.6	557.2
40°	504.7	509.2	523.7	534.8	541.5
42.5°	481.2	487.9	504.7	519.2	528.1
45°	458.9	466.7	484.6	504.7	514.7
47.5°	434.3	443.3	463.4	489.1	499.1
50°	408.7	417.6	442.2	471.2	482.4
52.5°	383.0	393.0	422.1	453.3	466.7
55°	355.1	366.2	402.0	435.5	450.0
57.5°	326.0	339.4	379.6	415.4	431.0
60°	295.9	312.6	357.3	395.3	412.0
62.5°	264.6	284.7	335.0	375.2	393.0
65°	234.5	256.8	311.5	354.0	372.9
67.5°	202.1	230.0	288.1	333.9	351.7
70°	169.7	202.1	263.5	310.4	328.3
72.5°	137.3	176.4	238.9	281.4	281.4
75°	106.1	149.6	213.3	212.1	205.4
77.5°	80.4	125.1	175.3	149.6	150.7
80°	58.1	100.5	110.5	110.5	111.7
82.5°	39.1	77.0	71.5	70.3	72.6
85°	23.4	35.7	36.8	33.5	34.6
87.5°	11.2	12.3	10.0	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)